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State Well Number	5746317
County	Blanco
River Basin	Colorado
Groundwater Management Area	9
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Blanco-Pedernales GCD
Latitude (decimal degrees)	30.3375
Latitude (degrees minutes seconds)	30° 20' 15" N
Longitude (decimal degrees)	-98.251667
Longitude (degrees minutes seconds)	098° 15' 06" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	820
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Spring
Well Use	
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Pedernales Falls Spring
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Groundwater Conservation District
Created Date	11/2/2015
Last Update Date	12/1/2015

Remarks	Flow est.
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**Casing - No Data**

**Well Tests - No Data**

**Lithology - No Data**

**Annular Seal Range - No Data**

**Borehole - No Data**

**Plugged Back - No Data**

**Filter Pack - No Data**

**Packers - No Data**

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**Water Level Measurements**

No Data Available

### Water Quality Analysis

**Sample Date:** 8/28/2015    **Sample Time:** 1045    **Sample Number:** 1    **Collection Entity:** Barton Springs/Edwards Aquifer CD

**Sampled Aquifer:** Marble Falls Limestone

**Analyzed Lab:** LCRA - Lower Colorado River Authority

**Reliability:** Sampled using TWDB protocols

**Collection Remarks:** Lab Calculated Anion/Cation Chg Bal set to TWDB Calculated Value due to an error in the lab calculated formula

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	<	20	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		220	mg/L	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		4.9	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		-3.32	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		35.6	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		268.47	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		73.1	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.192	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		46.6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		31.6	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	1	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.26	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		236	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		5.68	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		28.9	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		1.02	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.31	mg/L	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.296	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.76	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.02	mg/L	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		2.43	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SiO2)		14.4	mg/L	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.5		
00932	SODIUM, CALCULATED, PERCENT		14	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		17.9	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		561	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		360	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		29.2	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		27.6	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		305	mg/L	
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		2.54	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	4	ug/L	

### Water Quality Analysis

**Sample Date:** 8/25/2017    **Sample Time:** 1200    **Sample Number:** 1    **Collection Entity:** Barton Springs/Edwards Aquifer CD

**Sampled Aquifer:** Marble Falls Limestone

**Analyzed Lab:** LCRA - Lower Colorado River Authority

**Reliability:** Sampled using TWDB protocols

**Collection Remarks:** Lab Calculated Anion/Cation Chg Bal set to TWDB Calculated Value due to an error in the lab calculated formula

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00425	ALKALINITY, BICARBONATE DISSOLVED (MG/L), LAB		176	mg/L	
00430	ALKALINITY, CARBONATE DISSOLVED (MG/L), LAB		0	mg/L	
00420	ALKALINITY, HYDROXIDE DISSOLVED (MG/L), LAB		0	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		176	mg/L	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	5	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		-0.7703	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)		2.3	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		36.5	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		214.781	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		63.7	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.154	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		38.6	mg/L	
28004	CARBON-14 DISS APPARENT AGE (YEARS BP)		60	Y-BP	
82172	CARBON-14 FRACTION MODERN		0.9931		0.0036
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		26.3	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		1.19	ug/L	
82081	DELTA CARBON 13 C13/C12 PER MIL		-8.8	0/00	
50791	DEUTERIUM, EXPRESSED AS PERMIL VSMOW		-17.9	0/00	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.245	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		191.89	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		5.02	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		23.1	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		16.3	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		1.16	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.527	mg/L	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.119	mg/L	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
50790	OXYGEN-18, EXPRESSED AS PERMIL VSMOW		-2.13	0/00	
00400	PH (STANDARD UNITS), FIELD		8	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.02	mg/L	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		3.16	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	5	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		16.5	mg/L	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.541		
00932	SODIUM, CALCULATED, PERCENT		16.353	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		17.2	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		674	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		304	ug/L	
48297	STRONTIUM, ISOTOPE OF MASS 86 AND 87 RATIO		0.708244	N/A	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		21.7	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		27.46	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		253.244	mg/L	
07012	TRITIUM IN WATER (TRITIUM UNITS)		2.12	TU	0.09
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		3.45	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	5	ug/L	

\* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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